

Notice of Allowability

Application No.

09/872,476

Examiner

Marie C. Ubiles

Applicant(s)

KETONEN ET AL.

Art Unit

2642

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment 12/9/04.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 01 June 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 12/9/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Marie C. Ubiles
Patent Examiner
571-272-7491

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-20 are allowed.
2. The following is an examiner's statement of reasons for allowance:

Claims 1 and 11 recite a "power amplification system" comprising the claimed "power amplifier", "voltage converter", "monitoring unit" and "control unit".

No prior art was found teaching individually, or suggesting in combination, the combination of claim, specifically a monitoring unit detecting the occurrence of a "predetermined data pattern" and a control unit lowering an output power level for a specified period of time in response to the occurrence of the aforementioned "predetermined data pattern".

Imazaki et al. (US 4,158,814) teaches an automatic overload protection on automatic gain control circuit, when an excessive input signal level sufficient to cause receiver breakdown or malfunction is applied to the circuit, the impedance to ground a variable impedance reaches an almost zero level.

Hirvilampi (US 6,351,189) teaches a system and method for auto-bias that adjusts the bias condition of an amplifier to a wanted state between transmission periods.

Polischuk (US 4,635,297) teaches an overload protector, the protector has a detector coupled to the input for providing a bias current in response to an input signal in excess of a predetermined magnitude.

Cygan (US 5,426,395) teaches a method and apparatus for protecting power amplifiers from excessive operating power levels, wherein when a sensing signal exceeds a predetermined threshold, a feedback element is adjusted to produce an increased feedback signal.

It can be seen that in all references cited above, overload circuit protection is provided to circuits based on an excessive input, exceeded threshold or bias condition, however all references lack a monitoring unit detecting the occurrence of a "predetermined data pattern" and a control unit lowering an output power level for a specified period of time in response to the occurrence of the aforementioned "predetermined data pattern".

Further, the Examiner asserts that the limitation reciting "*likely* to cause an undesirable drop in an output voltage" was interpreted in light of the Specification (See, for example, Page 2, P. 2 and Page 3, P. 3) and per the definition given by the dictionary as an event that will have a possibility to occur.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marie C. Ubiles whose telephone number is (571)272-7491. The examiner can normally be reached on 9am-6pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marie C. Ubiles
April 1, 2005.


AHMAD F. MATAR
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600